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## **PCT**

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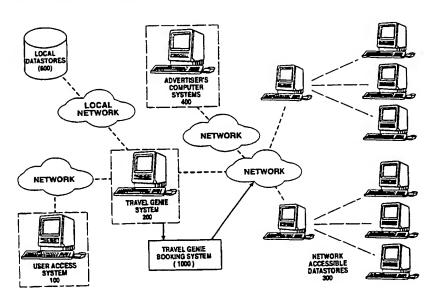
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Published

With international search report.

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## (54) Title: INFORMATION AGGREGATION AND SYNTHESIZATION SYSTEM



#### (57) Abstract

An information aggregation and synthesization system and process (1000). The present invention provides aggregation and packaging of structured or unstructured information from disparate sources such as those available on a network such as the Internet. A network compatible/addressable interface device is operated by a user (100). The network interface device (100) communicates with local (500) or network accessible datastores (300) via an addressing scheme such as Uniform Resource Locator addresses (URLs) utilized by the Internet. Data passing between the network interface device (100) and the datastores (300, 500) is accessed, polled and retrieved through an intermediary gateway system (200). Such aggregated information is then synthesized, customized, personalized and localized to meet the information resource requests specified by the user via the network interface device (100).

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International application No. PCT/US98/01341

A. CLASSIFICATION OF SUBJECT MATTER  IPC(6) :G06F 17/30, 17/60								
US CL	US CL :Please See Extra Sheet.							
	to International Patent Classification (IPC) or to both	national classification and IPC						
	DS SEARCHED							
	ocumentation searched (classification system followed	by classification symbols)						
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Documentat	tion searched other than minimum documentation to the	extent that such documents are included	in the fields searched					
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	E/IEE Online Publications		ation					
search ter	ms: Internet, WWW, world wide web, gateway, coup-	on, aa, aavertis?, prottie, implicit intorm	ation					
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.					
X, P	US 5,623,652 A (VORA et al.) 22 Apr 18-52	il 1997, abstract, col. 5, lines	1-7					
X, P	US 5,710,886 A (CHRISTENSEN et a	al) 20 January 1998, abstract,	8-11					
	col. 8, line 42 through col. 9, line 44		12-23					
Y, P			12-23					
Y	LITTLE, Thomas D.C., Commerce o Work, 1994, pages 74-78	12-23						
Y	AUBREY, David, Nomads of the Ne searching), Computer Shopper, v 15 n pages 1-8	12-18						
Т	US 5,740,549 A (REILLY et al.) 14	April 1998, abstract, col. 5	1-3					
X Further documents are listed in the continuation of Box C. See patent family annex.								
*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention								
1	be of particular relevance	ne claimed invention cannot be						
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Date of the actual completion of the international search  Date of mailing of the international search report								
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International application No.
PCT/US98/01341

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passag	es Relevant to claim No
A,P	US 5,649,186 A (FERGUSON) 15 July 1997, abstract, col. 3	1-23
A	US 5,530,852 A (MESKE, JR. et al.) 25 June 1996, abstract	1-23
A	YUWONO et al., Search and Ranking Algorithms for Locating Resources on the World Wide Web, IEEE, 1996, pages 164-1	
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International application No. PCT/US98/01341

Box 1 Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box 11 Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
Please See Extra Sheet.
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable
claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest
No protest accompanied the payment of additional search fees.

International application No. PCT/US98/01341

A. CLASSIFICATION OF SUBJECT MATTER:

US CL :

705/14, 705/26; 707/10, 501; 395/200.36, 395/200.47 395/200.48, 395/200.49

**B. FIELDS SEARCHED** 

Minimum documentation searched Classification System: U.S.

705/14, 705/26; 707/10; 395/200.47 395/200.48, 395/200.49

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-7, drawn to accessing, retrieving, and processing data passing between a network communication device and databases through an intermediary gateway.

Group II, claim(s) 8-23, drawn to using software agents to develop implicit and explicit user information profiles to distribute electronic coupons.

The inventions listed as Groups I and II do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Invention I has separate utility as a process for accessing, retrieving and processing data through an intermediary gateway without the software agents of invention II; and

Invention II has separate utility as a process for using software agents to generate user profiles from implicit and explicit information without the intermediary gateway of invention 1.